IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently Amended) A method for bonding a <u>surface of a</u> fibrous substrate <u>article</u> surface to a <u>surface of a</u> second substrate <u>article</u>, <u>surface selected</u> from the group consisting of <u>wherein the second substrate article comprises</u> an elastomer substrate <u>article</u>, an engineering plastic substrate <u>article</u>, a metal substrate <u>article</u>, [[and]] <u>or</u> a fiber-reinforced composite substrate <u>article</u>, to form a composite <u>structure</u>, comprising <u>the steps of</u>:
 - (a) providing a catalyst at the fibrous substrate article surface;
- (b) contacting the catalyst on the fibrous substrate <u>article</u> surface with a metathesizable material so that the metathesizable material undergoes a metathesis reaction; and
- (c) contacting the fibrous substrate <u>article</u> surface <u>including the</u> <u>metathesizable material</u> with a second substrate <u>article</u> surface whereby bonding between said <u>substrates</u> <u>articles</u> occurs by curing of the metathesizable material there between therebetween.
- 2. (Currently Amended) [[A]] The method according to claim 1, wherein the fibrous substrate article surface comprises a material selected from the group consisting of polyester, polyethylene, polypropylene, carbon, polyamide nylon [[and]] or aramid polyamide.
- 3. (Currently Amended) [[A]] <u>The</u> method according to claim 2, wherein the second substrate <u>article</u> surface comprises an elastomeric substrate <u>article</u>.
- 4. (Currently Amended) [[A]] The method according to claim 3, wherein the elastomeric substrate <u>article</u> is selected from the group consisting of natural rubber, polychloroprene, polybutadiene, polyisoprene, styrene-butadiene copolymer rubber, acrylonitrile-butadiene copolymer rubber, ethylene-propylene copolymer rubber,

ethylene-propylene-diene terpolymer rubber, butyl rubber, brominated butyl rubber, alkylated chlorosulfonated polyethylene rubber, hydrogenated nitrile rubber, poly(n-butyl acrylate), thermoplastic elastomer [[and]] or mixtures thereof.

- 5. (Currently Amended) [[a]] The method according to claim 3, wherein the elastomeric substrate <u>article</u> is natural rubber or ethylene-propylene-diene terpolymer rubber.
- 6. (Withdrawn-Currently Amended) [[A]] The method according to claim 1, where step (a) comprises soaking the fibrous substrate <u>article</u> in a catalyst solution in a carrier, <u>and</u> removing the carrier, and step (b) comprises dipping the catalyst-soaked fibrous substrate <u>article</u> into a metathesizable material and allowing polymerization.
- 7. (Currently Amended) [[A]] The method according to claim 1, wherein step (c) comprises placing the fibrous substrate <u>article</u> between two layers of second substrate <u>article</u> surface in a mold and curing the second substrate <u>article</u> with heat and pressure.
- 8. (Withdrawn-Currently Amended) [[A]] <u>The</u> method according to claim 1, wherein the catalyst is dissolved or mixed into a liquid carrier fluid.
- 9. (Currently Amended) [[A]] <u>The</u> method according to claim 1, wherein the catalyst is included as a component of the fibrous substrate <u>article</u>.
- 10. (Currently Amended) [[A]] The method according to claim 1, wherein the catalyst is selected from at least one of a rhenium compound, ruthenium compound, osmium compound, molybdenum compound, tungsten compound, titanium compound, niobium compound, iridium compound [[and]] or MgCl₂, or a combination thereof.
- 11. (Currently Amended) [[A]] <u>The</u> method according to claim 10, wherein the catalyst has a structure represented by

$$X = C$$

$$R^{1}$$

$$R^{1}$$

wherein M is OS, Ru or Ir; each R¹ is the same or different and is H, alkenyl, alkynyl, alkyl, aryl, alkaryl, aralkyl, carboxylate, alkoxy, allenylidenyl, indenyl, alkylalkenylcarboxy, alkenylalkoxy, alkenylaryl, alkynylalkoxy, aryloxy, alkoxycarbonyl, alkylthio, alkysulfonyl, alkylsulfinyl, amino or amido; X is the same or different and is either an anionic or a neutral ligand group; and L is the same or different and is a neutral electron donor group.

- 12. (Currently Amended) [[A]] <u>The</u> method according to claim 11, wherein X is CI, Br, I, F, CN, SCN, N₃, O-alkyl or O-aryl; L is a heterocyclic ring or $Q(R^2)_{a_1}$ wherein Q is P, As, Sb or N; R^2 is H, cycloalkyl, alkyl, aryl, alkoxy, arylate, amino, alkylamino, arylamino, amido or a heterocyclic ring; and a is 1, 2 or 3; M is Ru; and R^1 is H, phenyl, -CH=C(phenyl)₂, -CH=C(CH₃)₂ or -C(CH₃)₂(phenyl).
- 13. (Currently Amended) [[A]] <u>The</u> method according to claim 10, wherein the catalyst is a phosphine-substituted, an imidazolylidene-substituted, or a dihydro-imidazolylidene-substituted ruthenium carbene.
- 14. (Currently Amended) [[A]] <u>The</u> method according to claim 13, wherein the catalyst is bis(tricyclohexylphosphine)benzylidene ruthenium (V) dichloride, tricyclohexylphosphine [1,3-bis(2,4,6-trimethylphenyl)-4,5-dihydroimidazol-2-ylidene] [benzylidene] ruthenium (IV) dichloride, or tricyclohexylphosphine[1,3-bis(2,3,6-trimethylphenyl)-4,5-imidazol-2-ylidene][benzylidene]ruthenium (IV) dichloride.

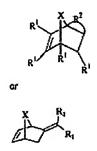
- 15. (Currently Amended) [[A]] <u>The</u> method according to claim 1, wherein the catalyst is stable in the presence of moisture and oxygen and can initiate polymerization of the metathesizable material upon contact at room temperature.
- 16. (Currently Amended) [[A]] <u>The</u> method according to claim 1, wherein the metathesizable material is selected from ethane, α-alkene, acyclic alkene, acyclic diene, acetylene, cyclic alkene, cyclic polyene [[and]] <u>or</u> mixtures thereof.
- 17. (Currently Amended) [[A]] <u>The</u> method according to claim 16, wherein the metathesizable material comprises a cycloolefin cyclic alkene.
- 18. (Currently Amended) [[A]] <u>The</u> method according to claim 17, wherein the metathesizable material is a monomer or oligomer selected from of norbornene, cycloalkene, cycloalkatriene, cycloalkatetraene, or aromatic-containing cycloolefin [[and]] or mixtures thereof.
- 19. (Currently Amended) [[A]] <u>The</u> method according to claim 18, wherein the metathesizable material has a structure represented by

or

Q!

$$\underset{R_{1}}{\overset{X}{\underset{R_{1}}{\bigcap}}}\underset{R_{2}}{\overset{R_{1}}{\bigcap}}$$

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wherein X is CH₂, CHR³, C(R³)2, O, S, N-R³, P-R³, O=P-R³, Si(R³)₂, B-R³ or As-R³; each R¹ is independently H, CH₂, alkyl, alkenyl, cycloalkyl, cycloalkenyl, aryl, alkaryl, aralkyl, halogen, halogenated alkyl, halogenated alkenyl, alkoxy, oxyalkyl, carboxyl, carbonyl, amido, (meth)acrylate-containing group, anhydride-containing group, thioalkoxy, sulfoxide, nitro, hydroxy, keto, carbamato, sulfonyl, sulfonyl, carboxylate, silanyl, cyano or imido; R² is a fused aromatic, aliphatic or heterocyclic or polycyclic ring; and R³ is alkyl, alkenyl, cycloalkyl, cycloalkenyl, aryl, alkaryl, aralkyl or alkoxy.

- 20. (Currently Amended) [[A]] <u>The</u> method according to claim 17, wherein the metathesizable material comprises ethylidenenorbornene monomer or oligomer, dicyclopentadiene or bicycle[2.2.1]hept-5-en-2-yl-trichlorosilane.
- 21. (Withdrawn-Currently Amended) [[A]] <u>The</u> method for bonding a fibrous substrate <u>article</u> to an elastomeric substrate <u>article</u> comprising <u>the steps of</u>:
 - (a) applying providing a catalyst on a surface on the fibrous substrate article;
- (b) contacting the catalyst on the fibrous substrate <u>article</u> with a metathesizable material so that the metathesizable material undergoes a metathesis reaction;
- (c) contacting the fibrous substrate <u>article</u> with the elastomeric substrate article to form a composite material; and
 - (d) curing said composite material.

22. (Withdrawn-Currently Amended) [[A]] <u>The</u> method according to claim 21, wherein the catalyst has a structure represented by

$$X = C R^1$$

$$X = R^1$$

$$R^1$$

wherein M is OS, Ru or Ir; each R¹ is the same or different and is H, alkenyl, alkynyl, alkyl, aryl, alkaryl, aralkyl, carboxylate, alkoxy, allenylidenyl, indenyl, alkylalkenylcarboxy, alkenylalkoxy, alkenylaryl, alkynylalkoxy, aryloxy, alkoxycarbonyl, alkylthio, alkysulfonyl, alkylsulfinyl, amino or amido; X is the same or different and is either an anionic or a neutral ligand group; and L is the same or different and is a neutral electron donor group.

- 23. (Withdrawn-Currently Amended) [[A]] <u>The</u> method according to claim 22, wherein X is Cl, Br, I, F, CN, SCN, N₃, O-alkyl or O-aryl; L is a heterocyclic ring or Q(R²)_a, wherein Q is P, As, Sb or N; R² is H, cycloalkyl, alkyl, aryl, alkoxy, arylate, amino, alkylamino, arylamino, amido or a heterocyclic ring; and a is 1, 2 or 3; M is Ru; and R¹ is H, phenyl, -CH=C(phenyl)₂, -CH=C(CH₃)₂ or -C(CH₃)₂(phenyl).
- 24. (Withdrawn-Currently Amended) [[A]] <u>The</u> method according to claim 21, wherein the catalyst is a phosphine-substituted, an imidazolylidene-substituted, or a dihydro-imidazolylidene-substituted ruthenium carbene.
- 25. (Withdrawn-Currently Amended) [[A]] <u>The</u> method according to claim 24, wherein the catalyst is bis(tricyclohexylphosphine)benzylidene ruthenium (V) dichloride, tricyclohexylphosphine[1,3-bis(2,4,6-trimethylphenyl)-4,5-dihydroimidazol-2-ylidene] [benzylidene] ruthenium (IV) dichloride, or tricyclohexylphosphine[1,3-bis(2,3,6-trimethyl-phenyl)-4,5-imidazol-2-ylidene][benzylidene]ruthenium (IV) dichloride.
- 26. (Withdrawn-Currently Amended) [[A]] <u>The</u> method according to claim 21, wherein the metathesizable material comprises a cycloolefin.

- 27. (Withdrawn-Currently Amended) [[A]] <u>The</u> method according to claim 26, wherein the metathesizable material is a monomer or oligomer selected from of norbornene, cycloalkene, cycloalkadiene, cycloalkatriene, cycloalkatetraene, aromatic-containing cycloolefin [[and]] or mixtures thereof.
- 28. (Withdrawn-Currently Amended) [[A]] <u>The</u> method according to claim 27, wherein the metathesizable material comprises a norbornene having a structure represented by

$$\begin{array}{c} R^{1} \\ R^{2} \\ R^{2} \\ R^{2} \\ R^{2} \\ R^{2} \\ R^{3} \\ R^{4} \\$$

wherein X is CH_2 , CHR^3 , $C(R^3)2$, O, S, N-R³, P-R³, O=P-R³, Si(R³)₂, B-R³ or As-R³; each R¹ is independently H, CH_2 , alkyl, alkenyl, cycloalkyl, cycloalkenyl, aryl, alkaryl,

aralkyl, halogen, halogenated alkyl, halogenated alkenyl, alkoxy, oxyalkyl, carboxyl, carbonyl, amido, (meth)acrylate-containing group, anhydride-containing group, thioalkoxy, sulfoxide, nitro, hydroxy, keto, carbamato, sulfonyl, sulfonyl, carboxylate, silanyl, cyano or imido; R² is a fused aromatic, aliphatic or heterocyclic or polycyclic ring; and R³ is alkyl, alkenyl, cycloalkyl, cycloalkenyl, aryl, alkaryl, aralkyl or alkoxy.

- 29. (Withdrawn-Currently Amended) [[A]] <u>The</u> method according to claim 26, wherein the metathesizable material comprises ethylidenenorbornene monomer or oligomer, dicyclopentadiene or bicycle[2.2.1]hept-5-en-2-yl-trichlorosilane.
- 30. (Withdrawn-Currently Amended) [[A]] <u>The</u> method according to claim 21, wherein the fibrous substrate <u>article</u> is <u>selected from the group consisting of polyester</u>, polyethylene, polypropylene, carbon, polyamide nylon [[and]] <u>or</u> aramid polyamide.
- 31. (Withdrawn-Currently Amended) [[A]] The method according to claim 30, wherein the second elastomeric substrate article surface is selected from the group consisting of natural rubber, polychloroprene, polybutadiene, polyisoprene, styrene-butadiene copolymer rubber, acrylonitrile-butadiene copolymer rubber, ethylene-propylene-diene terpolymer rubber, butyl rubber, brominated butyl rubber, alkylated chlorosulfonated polyethylene rubber, hydrogenated nitrile rubber, poly(n-butyl acrylate), thermoplastic elastomer [[and]] or mixtures thereof.
- 32. (Withdrawn-Currently Amended) [[A]] <u>The</u> method according to claim 21, wherein the elastomeric substrate <u>article</u> is natural rubber or ethylene-propylene-diene terpolymer rubber.
- 33. (Withdrawn-Currently Amended) [[A]] <u>The</u> method according to claim 21, wherein steps (a) and (b) take place at room temperature.

34-48 (Canceled)

- 49. (Withdrawn-Currently Amended) The method according to claim 21, wherein said fibrous substrate <u>article</u> is a reinforcing cord and said second <u>elastomeric</u> substrate <u>article</u> is an elastomer flowed through the reinforcing cord and cured to form a tire, belt or hose.
- 50. (Currently Amended) The method according to claim 1, wherein said fibrous substrate <u>article</u> is a reinforcing cord and said second substrate <u>article</u> is a post-vulcanized or cured elastomer.